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ر ښه	Information	on report	CD NO.			
OUNTRY	Hungary/USER	ONFIDE	DATE DISTR. 9 MAY 50	50X1		
UBJECT	Adjustment of Freight Cars to Br	CONFIDENTA	10. OF PAGES 2			
	Gauge		NO. OF ENCLS.	,		
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	Alteration of Two-Axle Cars					
1.	Since the new axle must move on the wheels must be increased. axle, which means that the axle the wheel's center heats up, ar mounted on the fit. The wheel confining the axle so tightly to wheel can be mounted twice of take European wheels, only the on the new axles. This was do goods which the Hungarian rails gauge axles were furnished by	Generally the wheel must be heated. In a collarges, so that is then allowed to that it cannot be don the same fit. So axles are exchanged ne in the case of froeds changed over the hussians and allowed.	is are pressed onto the as a result, the bore in the wheel can be easil cool and the bore contribledged without reheating the kussian railroads of and the old wheels moutive thousand cars of Gerto broad gauge. The broat the rest of the work were the contribution of the cort of the	y acts, ng. ean mted man ad- eas		
	done in the workshops of Zahony gauge axles.					
2.	For broad gauge the axle-guard must be located farther away from the central line of the vehicle than for standard gauge. The guard is made either of cast iron or of laminated sheets of metal. Eastern European cars are constructed in such a fashion that if the axle-guards are attached to the inner side of the shaft of the chassis, the guard is in just the place prescribed by railroad standards. In the case of a change-over the axle-guard must be bent in order that it may be placed in its new position. The original riveting must therefore be cut, the guard dismounted, reheated and re-riveted to the chassis shaft.					
3.	The load of the cars is transmitted by the springs to the axles, which has the advantage that the chassis receives an exactly vertical load. Cenerally the chassis shaft has an "I"-shaped profile on freight cars.					
4.	Because of the new broad gauge	, the suspension of	the springs must also	take a		

is not so powerful as to have a serious effect upon the life of the cars.

5. Altering the brakes is the circlest operation. The brake shoes must merely occupy a more outside possessing the property of the cars.

more exterior position and may not rest exactly underneath the chassis shaft. For this reason, on the outer side of the chassis shaft another special shaft is riveted to hold the suspension supports. The chassis shaft of cars altered to broad gauge thus receives, besides the vertical load, a torsion load, but this

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- 2 -

effect on the surface of the wheels. Since the brake gears are in the center of the vehicle, they remain unchanged. The main suspension rod of the brake shoes must be bent as much as is necessary, and the brake triangles must be exchanged in order to regulate the distance between the brake shoes. The brake triangles can be altered with little effort.

Alteration of Four-Axle Cars

- The four-axle car has two bogies, in each of which are mounted two axles. It is most important that the bogies be kept independent of the chassis. Alteration of gauge for the four-axle car is accomplished simply by exchanging the regular ones for broad-gauge bogies. The chassis (with the caisson of the vehicle) is elevated, the old bogie is pulled out and replaced with a new one. The operation is carried out at both ends of the car, and only a few screvs must be tightened. Changing over these two bogies does not take more than one hour. This type of alteration has the advantage that the cars can always be changed back to normal gauge while the two-axle car can be changed over only by the entire complicated process described above.
- 7. In the case of the four-axle cars, the entire brake gear is located on the bogies and is manipulated by a shaft connected to a brake roller located on the car's chassis.
- 8. Although the transformation of four-axle cars is simple, both standard and broad-gauge bogies must be on hand (in supply). In the event that the bogies must be altered, all the work involved in altering the two-axle car must be performed, which in the case of the four-axle car is doubled. The construction of the bogies is such and the alteration of them so complicated that in practice it is not feasible to alter them and is much better to build new ones.
- 9. There is yet a greater difficulty. In the satellite countries there are so few freight cars with four axles that it is impossible to undertake very extensive shipments.

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